**ONEAC FA Series Three Phase Filters:** Sensitive electronic equipment in industrial, medical and telecom applications often require protection from the disruptive effects of ongoing power line noise. ONEAC FA Series filter products provide cost-effective protection from damaging signals.

## High current equipment requires cost-effective solutions

Three phase or high current equipment, critical to the operation of industrial, medical or telecom systems are driven by power sources that propagate voltage transients and electrical noise. Although there may be a step-down or isolation transformer somewhere within the power feed, troublesome power line noise may still jeopardize the trouble-free operation of necessary equipment.

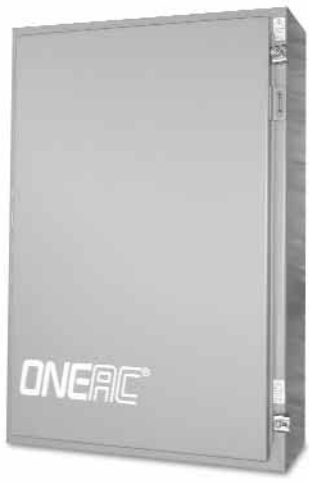
Heat treating ovens, robotic controllers and CNC machines are typical industrial applications where power protection can improve reliability. Likewise, MRI equipment, CATSCAN equipment and linear accelerators in the medical industry and large communications installations everywhere can benefit from the assurance of clean power.

## Significantly reduce problems caused by electrical noise

The FA Series high-performance filter provides a cost-effective solution for three phase, single or split phase applications from 30 to 100 amps. A bi-directional circuit provides susceptibility and emissions protection to prevent key equipment from the impact of power line problems. And it prevents noise generated by large equipment from effecting critical systems nearby.

## Robust design, proven durability

Designed and manufactured under ISO 9001 quality procedures, ONEAC FA Series' last far longer than surge suppressors and are highly reliable—even in harsh electrical environments. Their exceptionally high mean time between failure (MTBF) backs that up. So do we with a 5-year warranty and a willingness and ability to engineer site-specific protection schemes that eliminate your power problems entirely.




- **Tight surge let-through:** provides industrial level protection against high voltage spikes.
- **High frequency noise filters:** exceeds insertion loss capability of standard industrial filters to provide maximum attenuation of high frequency noise.
- **Broad voltage capabilities:** models for input voltage of 190 V through 600 V meet North American and international applications.
- **Premium grade filtering:** significantly reduces downtime and improves equipment productivity.
- **Convenient installation:** packaged within a NEMA 12 enclosure, the FA Series is wall or floor mountable.
- **Unmatched factory support:** every unit in the FA Series is designed and manufactured in the US.
- **Safety approvals:** UL, CSA, CE
- **Manufactured under ISO 9001:** assures consistent quality and performance.
- **5-year warranty:** the best assurance of product quality and performance in the industry.
- **Free 24-hour technical support**

# ONEAC FA Series Three Phase Filters: Specifications

## RFΩ Insertion Loss (line to lead and lead to line)

FA Series

400 kHz to 4 MHz — 45 dB typical
100 kHz to 10 MHz — 35 dB typical
30 kHz to 30 MHz — 35 dB typical

## Agency Approvals

All FA models are listed under UL508 and CSA22.2 No. 14, select models carry the CE mark.

## Warranty

The FA Series is backed by a five-year warranty. Your best assurance of ONEAC's high degree of product quality and reliability.

## Performance Characteristics

**Surge voltage withstand capability:** ANSI/IEEE C62.41 Category A&B, 6 kV/200 & 500 Amp, 100 kHz ringwave and 6 kV/3000A impulse

**Surge and Noise Rejection-Isolation:** with unit under power, and ANSI/IEEE C62.41 Category A pulse applied either normal mode (L-N) or common mode (N-G) at the input, the noise output voltage will be less than 20V normal mode and common mode in all four quadrants using a Keytek 711A/J (or equivalent) surge generator and a low-voltage, high sensitivity probe.

**Load Power Factor:** 0.3 leading to 0.3 lagging

**Load Regulation Response Time:** <2 msec for 50% change in load

**Interruption Response Time:** output voltage will track input voltage in less than 2 msec at power-off and power-on for a single-cycle asynchronous notch

**Distortion:** <1% THD added into a resistive load

**Overload Protection:** fuse

**Cooling:** convection

**Input/Output Connectors:** Hardwired

**Normal & Common Mode Clamping Response Time:** instantaneous

**Ambient Operation:** 10,000 ft. (3,000 meters) max elevation, 0-95% humidity non-condensing, 32-104°F (0-40°C) convection

| MODELS | FA23030 | FA63030 | FA23060 | FA63060 | FA23100 | FA63100 |
|---|---|---|---|---|---|---|
| Part Number | 026-005 | 026-075 | 026-060 | 026-076 | 026-070 | 026-077 |
| Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Load Current Rating (Amps per phase)* | 30 | 30 | 60 | 60 | 100 | 100 |
| Input/Output Voltage Range, WYE (VAC) | 173/100 to 250/144 | 173/100 to 600/346 | 173/100 to 250/144 | 173/100 to 600/346 | 173/100 to 250/144 | 173/100 to 600/346 |
| Input/Output Voltage Range, DELTA (VAC) | 173 to 250 | 173 to 600 | 173 to 250 | 173 to 600 | 173 to 250 | 173 to 600 |
| Surge Current (Amps) 10 sec. typical | 150 | 150 | 300 | 300 | 500 | 500 |
| 1kHz Forward Transfer Impedance (Ohms) | <1 | <1 | <1 | <1 | <1 | <1 |
| Efficiency at Rated Output (%) | >98 | >98 | >98 | >98 | >98 | >98 |
| Enclosure Rating | NEMA 12 (IP55) | NEMA 12 (IP55) | NEMA 12 (IP55) | NEMA 12 (IP55) | NEMA 12 (IP55) | NEMA 12 (IP55) |
| Maximum Dimensions (W) inches (cm) | 16 (41) | 16 (41) | 20 (51) | 20 (51) | 24 (61) | 24 (61) |
| Maximum Dimensions (H) inches (cm) | 24 (61) | 24 (61) | 30 (76) | 30 (76) | 30 (76) | 30 (76) |
| Maximum Dimensions (D) inches (cm) | 9 (23) | 9 (23) | 9 (23) | 9 (23) | 13 (33) | 13 (33) |
| Shipping Weight lbs. (kg) | 85 (38) | 85 (38) | 150 (68) | 150 (68) | 210 (95) | 210 (95) |
| Optional Floor Mount Kit Part Number | 350-091 | 350-091 | 350-073 | 350-073 | 350-046 | 350-046 |

* Specified at 25°C derate 1% per ambient °C to a maximum of -15% at 40°C.



ONEAC is a UL/BSI registered corporation — Certification No. A2900

A Chloride Power Protection Company

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